Simple PHP Server with MySQL

- Creating MySQL DB & Table

- Access MySQL Database using PHP

Creating MySQL DB & Table

- Use the **MySQL shell** (command line)

- Use GUI tools like:

    - **phpMyAdmin** (included with XAMPP)

    - **VS Code extensions**

    - **MySQL Workbench**, **DBeaver**, etc.

- Step 1: Log in to MySQL (Enter your root password when prompted)

```
mysql -u root -p
```

- Step 2: Create and Use Database

```
CREATE DATABASE studentdb;
USE studentdb;
```

  - Check if you have the students' database (we created in the previous section)

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| studentdb          |
| sys                |
+--------------------+
```

- Step 3: Create a Table

```
CREATE TABLE students (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100),
    age INT,
    major VARCHAR(100)
);
```

- Step 4: View Tables

```
SHOW TABLES;
```

Access MySQL Database using PHP

```php
<?php
$servername = "localhost";
$username = "root";
$password = "password";
$dbname = "studentdb";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";

// Close connection
$conn->close();
?>
```

- You should see the "Connected successfully" message in your browser.

What You Did

1. You made a student's MySQL DB and a student's Table in it.

2. You made a PHP server code that connects to the MySQL DB.

3. You accessed the MySQL DB using the PHP web application locally via browser.